

Amendments to the Specification:

Please replace the abstract with the following:

According to the present invention, even if an analysis target has a complicated shape, for example, has two or more cutting surfaces, elements can be automatically extracted therefrom without reducing any analysis accuracy. ~~There is included an interference polygon creating step S3 of creating, for~~ For each voxel interfering with shape data, an interference polygon is created inside the shape data using interference surfaces between the shape data and the interior of the voxel. ~~There are further included, after~~ After the interference polygon is created ~~creating step S3, a divided polygon creating step S5 of is~~ created by moving one of the vertexes of the interference polygon, which has a predetermined property, to another vertex, ~~and creating a~~ The divided polygon ~~having as vertexes~~ includes the vertex that has not been moved and vertexes of the voxel inside the shape data, ~~and an element extracting step S7 of~~ ~~extracting an~~ An element of a predetermined shape is extracted on the basis of the relationship between a plurality of vertexes of the divided polygon, ~~created at the divided polygon creating step S5.~~